## CLAIM AMENDMENTS

Claim 1 (original). A polybenzoxazole precursor comprising a partial structure selected from the group consisting of

wherein each of  $A^1$  to  $A^7$  is a univalent substituent independently selected from the group consisting of H, F,  $CH_3$ ,  $CF_3$ ,  $OCH_3$  and  $OCF_3$ ;

T is a residue selected from the group consisting of

wherein each of  $A^8$  to  $A^{21}$  is a univalent substituent independently selected from the group consisting of H, F,  $CH_3$ ,  $CF_3$ ,  $OCH_3$  and  $OCF_3$ ;

$$6$$
 or  $\sqrt{\chi}$ 

wherein X is selected from the group consisting of  $-CH_2-$ ,  $-CF_2-$ ,  $-C(CH_3)_2-$ ,  $-C(CF_3)_2-$ ,  $-C(OCH_3)_2-$ ,  $-C(OCF_3)_2-$ 

 $C(CH_3)(C_6H_5)-$ ,  $-C(C_6H_5)_2-$ , -O-, -(NH)-,  $-(N-CH_3)-$  and  $-(N-C_6H_5)-$ ;

wherein M is selected from the group consisting of residues represented by formulas 10-14

in which Q is selected from the group consisting of C-H, C-F, C-CH<sub>3</sub>, C-CF<sub>3</sub>, C-OCH<sub>3</sub>, C-OCF<sub>3</sub> and N,

and residues represented by formulas 15-34 shown below:

wherein Q is defined as above, provided that at least one Q signifies N and a maximum of two N atoms are present per ring.

Claim 2 (original). The polybenzoxazole precursor of claim 1, further comprising at least one acetylene group.

Claim 3 (original). The polybenzoxazole precursor of claim 2, wherein said acetylene group is present in the main chain.

Claim 4 (original). The polybenzoxazole precursor of claim 2, wherein said acetylene group is present in a side chain.

Claim 5 (original). The polybenzoxazole precursor of claim 2, wherein said acetylene group is present in a chain terminating group.

Claim 6 (original). The polybenzoxazole precursor of claim 2, wherein said acetylene group is present in the residue of a carboxylic acid selected from the group consisting of

Claim 7 (original). A photoresist solution, comprising a polybenzoxazole precursor of claim 1, a diazoketone photoactive component, and an organic solvent.

Claim 8 (original). The photoresist solution of claim 7, wherein the weight ratio of polybenzoxazole precursor to diazoketone is in the range from 1:20 to 20:1.

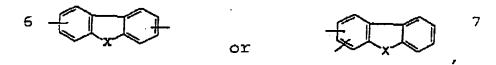
Claim 9 (original). The photoresist solution of claim 8, wherein a weight ratio of polybenzoxazole precursor to diazoketone is in a range from 1:10 to 10:1

Claim .10 (currently amended). A polybenzoxazole containing a partial structure selected from the group consisting of

wherein each of  $A^1$  to  $A^7$  is a univalent substituent independently selected from the group consisting of H, F,  $CH_3$ ,  $CF_3$ ,  $OCH_3$  and  $OCF_3$ ; and

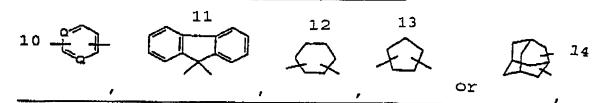
T is a residue selected from the group consisting of the residues represented by the following formulas 5-34 defined above

wherein each of A<sup>8</sup> to A<sup>21</sup> is a univalent substituent independently selected from the group consisting of H, F, CH<sub>3</sub>, CF<sub>3</sub>, OCH<sub>3</sub> and OCF<sub>3</sub>;



wherein X is selected from the group consisting of  $-CH_2-$ ,  $-CF_2-$ ,  $-C(CH_3)_2-$ ,  $-C(CF_3)_2-$ ,  $-C(OCH_3)_2-$ ,  $-C(OCF_3)_2-$ ,  $-C(OCH_3)_3-$ ,  $-C(OCH_$ 

wherein M is selected from the group consisting of residues represented by formulas 10-14



in which Q is selected from the group consisting of C-H, C-F, C-CH<sub>3</sub>, C-OCH<sub>3</sub>, C-OCF<sub>3</sub> and N,

## and residues represented by formulas 15-34 shown below:

wherein Q is defined as above, provided that at least one Q signifies N and a maximum of two N atoms are present per ring.

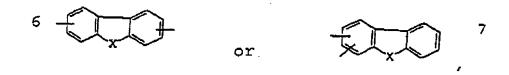
Claim 11 (currently amended). The polybenzoxazole precursor of claim 1, wherein said partial structure is

wherein each of  $A^1$  to  $A^3$  is a univalent substituent independently selected from the group consisting of H, F, CH<sub>3</sub>, CF<sub>3</sub>, OCH<sub>3</sub> and OCF<sub>3</sub>; and

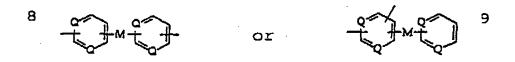
T is a residue selected from the group consisting of the residues represented by the following formulas 5-34 defined

wherein each of A<sup>8</sup> to A<sup>21</sup> is a univalent substituent independently selected from the group consisting of H, F, CH<sub>3</sub>, CF<sub>3</sub>, OCH<sub>3</sub> and OCF<sub>3</sub>;

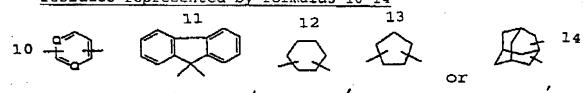
`)



wherein X is selected from the group consisting of  $-CH_2-$ ,  $-CF_2-$ ,  $-C(CH_3)_2-$ ,  $-C(CF_3)_2-$ ,  $-C(OCH_3)_2-$ ,  $-C(OCF_3)_2-$ ,  $-C(OCF_$ 



wherein M is selected from the group consisting of residues represented by formulas 10-14



in which Q is selected from the group consisting of C-H, C-F, C-CH<sub>3</sub>, C-CF<sub>3</sub>, C-OCH<sub>3</sub>, C-OCF<sub>3</sub> and N,

and residues represented by formulas 15-34 shown below:



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wherein Q is defined as above, provided that at least one Q signifies N and a maximum of two N atoms are present per ring.

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Claim 12 (currently amended). The polybenzoxazole precursor of claim 1, wherein said partial structure is

wherein each of  $A^1$  to  $A^7$  is a univalent substituent independently selected from the group consisting of H, F,  $CH_3$ ,  $CF_3$ ,  $OCH_3$  and  $OCF_3$ ; and

T is a residue selected from the group consisting of the residues represented by the following formulas 5-34 defined

wherein each of A<sup>8</sup> to A<sup>21</sup> is a univalent substituent independently selected from the group consisting of H, F, CH<sub>3</sub>, CF<sub>3</sub>, OCH<sub>3</sub> and OCF<sub>3</sub>;

wherein X is selected from the group consisting of  $-CH_{2}$ ,  $-CE_{2}$ ,  $-C(CH_{3})_{2}$ ,  $-C(CE_{3})_{2}$ ,  $-C(OCH_{3})_{2}$ ,  $-C(OCE_{3})_{2}$ 

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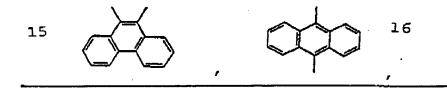
 $C(CH_3)(C_6H_5)$ -,  $-C(C_6H_5)_2$ -, -O-, -(NH)-,  $-(N-CH_3)$ - and  $-(N-C_6H_5)$ -;

wherein M is selected from the group consisting of

residues represented by formulas 10-14

in which Q is selected from the group consisting of C-H, C-F, C-CH<sub>3</sub>, C-OCH<sub>3</sub>, C-OCF<sub>3</sub> and N,

and residues represented by formulas 15-34 shown below:



wherein Q is defined as above, provided that at least one
Q signifies N and a maximum of two N atoms are present per
ring.

Claim 13 (original). The polybenzoxazole precursor of claim 1, wherein each of  $A^1$  to  $A^7$  is H.

Claim 14 (original). The polybenzoxazole precursor of ) claim 1, wherein T is

in which each Q is CH and M is

Claim 15 (original). The polybenzoxazole precursor of claim 1, wherein T is

in which each Q is CH and M is

Claim 16 (original). The polybenzoxazole precursor of claim 1, wherein T is

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in which Q in each outside ring is N and each Q in the ) middle ring is CH.

> Claim 17 (original). The polybenzoxazole precursor of claim 1, wherein T is

in which six of the substituents  $A^8$  to  $A^{21}$  are  $CH_3$  and the remainder of the substituents  $A^8$  to  $A^{21}$  are H.

Claim 18 (original). The polybenzoxazole precursor of claim 5, wherein said chain terminating group is a residue of

Claim 19 (original). The polybenzoxazole precursor of claim 18, wherein T is

in which each Q is CH and M is

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Claim 20 (original). A process for preparing a polybenzoxazole precursor containing a partial structure selected from the group consisting of

3 HO C-T-O CH HO C-T-O CH C-T-O CH A1-A3 NH-C- and -C-HN 
$$A_{1-A}^{1}$$
  $A_{1-A}^{2}$ 

wherein each of  $A^1$  to  $A^7$  and T are as defined above, comprising the steps of

providing at least one reactant selected from the group consisting of bis-o-aminophenols and o-aminophenolcarboxylic acids,

causing the reactant to react with at least one dicarboxylic acid compound,

mixing the reaction mixture with a precipitating agent to precipitate a solid polybenzoxazole precursor,

and isolating the polybenzoxazole precursor from the reaction mixture.

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